

**45th  
Annual**

**Architectural Foundation  
of San Francisco**

**High School  
Design  
Competition**



**AF**



**ARCHITECTURAL FOUNDATION OF SAN FRANCISCO  
2014 FORTY-FIFTH ANNUAL  
HIGH SCHOOL DESIGN COMPETITION**

Dear High School Student & Educator,

We are pleased to invite you to participate in the Architectural Foundation of San Francisco's Forty-Fifth Annual High School Design Competition. This is an exciting competition where high school students put their design skills, creativity, spatial and analytical thinking and craftsmanship to the test. With the guidance of instructors, high school students design a building and communicate their design solutions through drawings and models. All high school students in both public and private schools in the greater San Francisco Bay Area are encouraged to participate. This competition provides young thinkers with the opportunity to participate in what is a very unique learning project.

The Architectural Foundation of San Francisco is a nonprofit educational organization that involves San Francisco students in a mentored appreciation of architecture, engineering, construction and the design process. San Francisco reigns as one of the most architecturally significant and beautiful cities in the world. The environment of architectural diversity is extremely important to the vitality of this great city. Everywhere, the vibrant and complex layering of landscape, color, cultures and light produces experiences that unexpectedly reveal themselves. Since its inception in 1990, the Architectural Foundation of San Francisco has endeavored to reach out to the general public to establish an open dialog on the architectural future of this community.

To receive more information about the Architectural Foundation of San Francisco and to receive competition updates, please visit the website at [www.afsf.org](http://www.afsf.org) or email Will Fowler at [will@afsf.org](mailto:will@afsf.org).

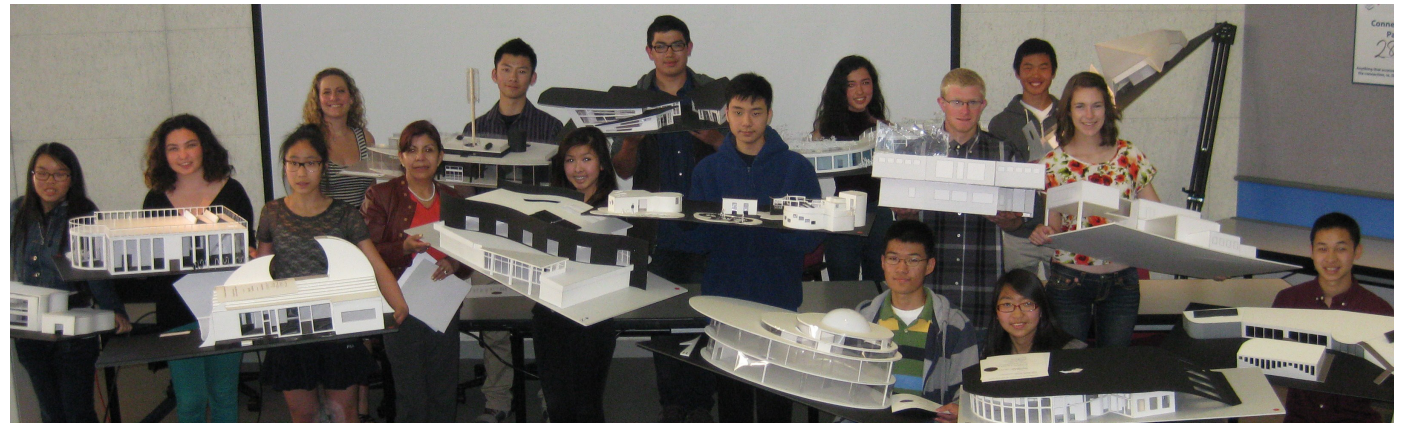
Thank you for your interest and we look forward to seeing your designs!

Sincerely,

**Alan Sandler**  
Executive Director, AFSF

**Will Fowler**  
Programs Director, AFSF

**Ryan Lee**  
Woods Bagot, Chair & Author





**ARCHITECTURAL FOUNDATION OF SAN FRANCISCO  
2014 FORTY-FIFTH ANNUAL  
HIGH SCHOOL DESIGN COMPETITION**

**COMPETITION SUMMARY**

**PROGRAM:** Architectural design competition sponsored by the Architectural Foundation of San Francisco

**DESIGN CHALLENGE:** Youth Health & Fitness Center

**ELIGIBILITY:** Open to all high school students throughout the greater San Francisco Bay Area

**EDUCATIONAL  
OBJECTIVES:**

- Increase your awareness of the relationships between space, human scale and function
- Gain experience in communicating your planning and designing ideas through drawings and models
- Gain experience in recognizing the varied problems in planning and designing functional spaces for defined uses
- Create an understanding of the problems faced by today's youth relative to health and fitness issues in hopes of inspiring critical thinking through unique design solutions.

**COSTS:** No entry fee and no pre-registration required

**AWARDS:** This is a judged competition with monetary awards

**SCHEDULE:** January 27, 2014 | Competition distribution  
April 26, 2014 | Competition entries due  
April 27, 2014 | Awards Ceremony and Reception

**CONTACT:** Will Fowler | Programs Director | Architectural Foundation of San Francisco 415.393.9963 | [will@afsf.org](mailto:will@afsf.org)  
Ryan Lee | Competition Committee Chair and Author | Woods Bagot 415.277.3041 | [ryan.lee@woodsbagot.com](mailto:ryan.lee@woodsbagot.com)



## **DESIGN CHALLENGE**

### **BRIEF:**

You are challenged to design a new Youth Health and Fitness Center overlooking Crissy Field and the San Francisco Bay in the Golden Gate National Recreation Area. The building will be a permanent fixture within the Presidio and will serve a variety of uses.

The mission of the Youth Health and Fitness Center is dedicated to serving local youths by providing the facilities, programming and education necessary in order to promote a healthy and active lifestyle. The Center is focused on developing healthy habits for kids to adopt and maintain while also providing an accessible facility for local youths of all ages, genders and socioeconomic backgrounds to actively engage in positive programming. Free to all children and young adults age 5-18, the Center is supported through funds generated by The Presidio Trust. The Center will run programs from within the facility and will also take advantage of its prime location within the Presidio - making use of the various cycling and running trails, the Main Post Lawn and Crissy Field to name a few. The Center will also serve as a meeting point for those interested in running clubs, hiking excursions, rowing/water sport clubs, etc.

As part of the Golden Gate National National Recreation Area, the Presidio offers visitors with unparalleled park access to preserved wildlife, historical buildings, recreational activities and breathtaking scenic views of San Francisco's waterfront. With the redevelopment of Crissy Field, many historic barracks and hangar facilities were restored and re-envisioned as recreational opportunities for the local community to enjoy such as House of Air and Planet Granite - two alternative exercise activities in the form of a trampoline facility and a climbing gym respectively. Along with the extensive paths carved out throughout Crissy Field and the greater Presidio area, there are plenty of fantastic opportunities for promoting a healthy and active lifestyle. The Youth Health and Fitness Center will become a dedicated hub and main point of interest for those seeking to involve themselves in any of these activities that the Presidio has to offer.

In addition to providing active programming, the Center will also focus on educating youths on the importance of developing healthy habits to carry over into their adult lives. Seminars, discussions and classes regarding topics such as exercising properly, eating well, reducing stress, relaxation and communication will be provided for those interested.

### **DESIGN CRITERIA:**

You are free to design as you see fit. Remember, there are no real right or wrong design solutions as this competition encourages you to be creative and original with your design intentions. Your design solution should have its own unique architectural presence on the site respective of the surrounding context. You are designing in a historically recognized environment and should be considerate of the site's architectural context. Your design solution should be a carefully laid out proposal that meets the programmatic needs of the building. Overall, your design solution should be creative and inspiring and foster the goals laid out in this design challenge.





**SITE**

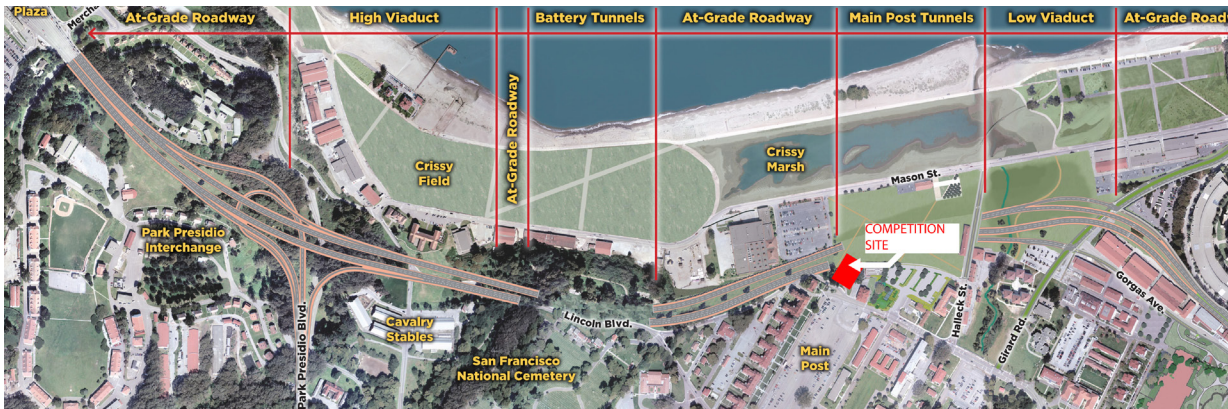
**OVERVIEW:**

The site is located along Lincoln Boulevard in the Presidio between Montgomery Street and Anza Avenue. Situated north of the Main Post Lawn and overlooking Crissy Field, the site provides clear sightlines to the San Francisco Bay - including the Golden Gate Bridge, Angel Island and Alcatraz. Currently the site is under construction as a portion of the new Presidio Parkway gets built. Lincoln Blvd. runs along the southern edge of the site and provides primary access for both vehicular and pedestrian access to the Center. A neighboring parking lot lies just east of the site, which also serves the Post Office, the Observation Post event space venue, the First Republic Bank and the Transit Cafe. This lot will also serve the needs of the Youth Health and Fitness Center so there is no need to account for additional parking. Visitors to the site are encouraged to take public transportation. Additional neighboring buildings along Montgomery Street include the Presidio Visitor's Center and the Walt Disney Family Museum. The San Francisco Fire Department also operates out of a firehouse along Lincoln Blvd. just east of the site in SFFD Station 51.

You are given a site that is roughly 150' x 200'. The rectangular plot is rotated so that the 150' southern edge aligns itself parallel to Lincoln Blvd. Your design may be located anywhere within the given boundaries. Your building coverage, however, may not exceed 80' in width and 160' in length. Your design for the site and how your building interacts directly with its surroundings will be shown on your site plan drawing. The entire site does not need to be built in your model. You may also chose to utilize and design the full extent of the site but only from a master planning perspective. Your site plan may include ideas regarding landscaping and how best to utilize the entire area given but it is not required of you. A site visit is not required but is strongly encouraged to gain a better understanding of the context and how to best design with the given views, sun path, etc.

**PRESIDIO PARKWAY:**

A portion of the site sits directly on top of what is being referred to as the new Presidio Parkway, which is currently under construction. In an effort to replace the old Doyle Drive and seismically upgrade the approach through the Presidio to the Golden Gate Bridge, the Presidio Parkway was re-envisioned as a roadway tucked into the natural contours of the Presidio of San Francisco and the Golden Gate National Recreation Area. According to the Presidio Parkway website - the project team strived to create a roadway that reduces impacts to biological, cultural and natural resources; respects the project setting within a national park, the National Historic Landmark District and surrounding neighborhoods; meets community needs; and provides a safer roadway. Construction began in late 2009 and will be complete in 2016.<sup>1</sup> Details can be found here: <http://www.presidioparkway.org/>



As you can see from the master plan image of the Presidio Parkway to the left, the competition site falls just within the outlined boundaries of the Main Post Tunnel portion of the project. This segment of the parkway is designed to create a pedestrian connection from the Main Post and Lincoln Blvd. down to Crissy Field via a tunnel top parkland that will cover a portion of the roadway. This creates a unique position for the competition site seeing as it becomes a connector between two major destinations in the Presidio. When designing your building, please be mindful of the circulation route from both Crissy Field and the Main Post - allow this connection to drive part of your logic in terms of integrating your design proposal within the greater context.

<sup>1</sup> The Presidio Parkway website: <http://www.presidioparkway.org/about/>

**SITE CONTINUED**

**MID-CRISSY FIELD SITE:**

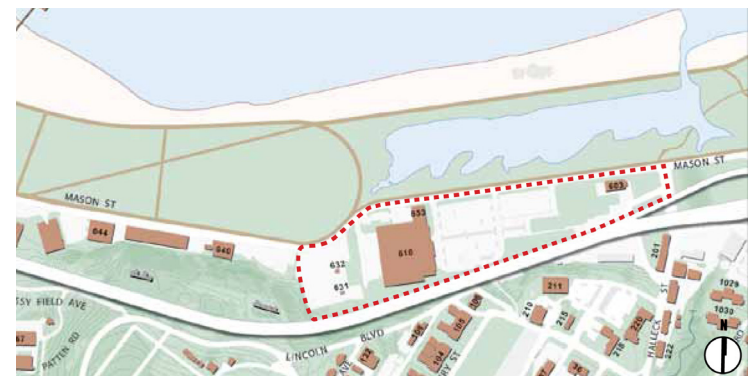
Currently, the Presidio Trust is reviewing design proposals for the mid-crissy field site which was once home to the Military’s commissary and PX store and is currently a Sports Basement. The Presidio Trust is looking to settle on a design proposal that enhances the visitor experience at the Presidio, provides cross-disciplinary programming, is compatible with the Crissy Field context, and welcomes a broad cross-section of visitors to the site. Three projects are still up for consideration including George Lucas’ Cultural Arts Museum designed by Urban Design Group, The Bridge/Sustainability Institute designed by WRNS Studio and The Presidio Exchange designed by EHDD. The three projects can be viewed in more detail here:

<http://www.presidio.gov/about/Pages/commissary.aspx#.UulA8BDTlaT>

It is up to you to decide to what extent you may want to consider the proposals for the mid-crissy field site if at all relative to your own proposal. A couple of the proposed designs deal with linking Crissy Field with the Main Post and could influence a part of your design. A direction may be decided upon within the coming week regarding which way the Presidio Trust is leaning. A meeting is scheduled for January 27, 2014.

**SUSTAINABILITY**

A fundamental goal of this building is to embrace sustainability. In order to reduce the overall impact of the building on the natural environment, this center should consider integrating innovative green building strategies that help increase energy and water efficiency, use renewable energy and materials, and reduce consumption, pollution, and waste. The building should consider careful building orientation, natural day lighting, smart shading systems, water conservation, and photovoltaic solar collectors among other strategies. Where possible, the building and site should showcase green building methods used to educate the public on sustainable architecture. Research into the US Green Building Council’s Leadership in Energy and Environmental Design (LEED) rating system is encouraged.





## **PROGRAM REQUIREMENTS**

The Youth Health and Fitness Center should either be a one or two story structure so as to maintain a mindful and considerate presence on the site. Please limit the height of your structure to 30' maximum - the surrounding existing architecture and views should be considered when designing the height of your design. The building can be situated anywhere on the given site and in any orientation relative to true north. As previously mentioned, in an effort to maintain light, air, views, open space and to minimize the footprint, the building itself must fit within an 80' x 160' rectangular plot. The center will include the following spaces listed below. Additional spaces may be added at your discretion; however it must add value to the building program and be in line with the center's mission.

**BUILDING PROGRAM:** Your building design must include spaces for the following uses:

- **Main Entrance & Lobby:** (300 sq. ft.) This will serve as the gateway into the building from the exterior and must be easily visible to the public. The lobby includes a large digital display wall that will announce upcoming class schedules, events, and seminars occurring within the center. Please allocate space for a reception desk for users to check-in prior to using the facility. You may choose to split your entry lobby into two locations. Just note that each entry must be manned or visual connection between the two entrances must be maintained as it is imperative for security purposes.
- **Open Gym Space:** (1400 sq. ft.) This space will house both cardio workout and weight training equipment in an open gym setting. The gym may be split into two rooms and/or on two levels if you so choose.
- **Dance Studio:** (900 sq. ft.) Provide space for a dance studio to be used by multiple classes throughout a typical week. Consideration should be given to adequately daylighting the space while still providing enough solid wall space to mount mirrors on.
- **Seminar Room** (500 sq. ft.) This space will hold discussions and seminars on health education. Seating must be provided. Consider this space as a dynamic flexible use space that can be utilized as a casual meeting space when talks aren't in session.
- **Juice Bar Cafe:** (600 sq. ft.) Allocate space to house a juice bar that provides small snacks and refreshments. The area figure for this space takes into consideration both prep and sales space. Seating must be provided.
- **Administrative Offices:** (250 sq. ft.) This space is used for the day-to-day operations of the center, including program coordination, seminar preparation and building maintenance. Space should be allocated for a Director's office and work space for at least two support personnel.
- **Locker Rooms:** (600sq. ft./each) Provide locker room facilities for each gender. Restroom requirements for males: 3 stalls and 3 urinals plus 3 sinks. Restroom requirements for females: 6 stalls + 3 sinks. Each Locker Room should have enough space for 4 showers each plus adequate space for individual lockers and changing space.
- **Storage:** (150 sq. ft.) This is storage for the entire building and will include janitorial supplies, office supplies and furniture storage.
- **Bicycle Storage:** (100 sq. ft.): Visitors will be encouraged to bike to the center and should have sufficient space to lock up their bicycles while roaming the building. Accommodation for up to ten bicycles should be factored into the design.
- **Circulation:** (no predetermined area) The building circulation includes stairs, an elevator and an adjacent lobby and corridors. If your design is two stories, the elevator must have a minimum clear inside dimension of 5'-8" wide x 4'-6" deep. The stair must be at least 5'-0" wide. Your building must be handicap accessible regardless of the number of stories.





## **PROGRAM REQUIREMENTS CONTINUED**

- Outdoor Terrace (no predetermined area) An outdoor terrace space should be designed to take advantage of the site's prime location. The terrace may either occupy the roof of the building, a portion of the site at ground level or both. Some classes such as yoga may be held outdoors. On a typical day, visitors should be able to sit, linger, have lunch and enjoy the views of the San Francisco Bay.

SITE PROGRAM: Your site design must address the following uses:

- Skate Dot: (1000 sq. ft.) Adjacent to your building, design a small skate dot - a small skateboard park for beginning and intermediate skateboarders. Careful thought into integrating the design of your skate dot with the design of your building is encouraged.
- Site Amenities: Amenities that must be included on the site are seating, additional bike racks and shaded areas.

## **SUBMISSION REQUIREMENTS**

### MANDATED SUBMISSION ITEMS

1. DRAWINGS | Provide the following presentation drawings:

- Floor plan(s) of building | 1/4" = 1'-0" scale | Include furniture, room names, and north arrow.
- One elevation of building | 1/4" = 1'-0" scale | Elevation view that best describes your design. Include a person for scale.
- One building section of building | 1/4" = 1'-0" scale | Section view that best describes your design. Include a person for scale.
- One site plan | 1/16" = 1'-0" scale | Include the building and surrounding site. Label all site elements and include a north arrow.

Drawings must clearly communicate the design solution through selection of appropriate drawing views, clarity of line work, and thoughtful layout and mounting of drawings onto board(s). Each drawing must be labeled with the drawing name (i.e. First Floor Plan, West Elevation) and the scale of the drawing. Rendering materiality and casting shadows is encouraged. Providing drawings at a smaller scale of drawings is acceptable only when the design scheme does not fit on the boards. Providing additional drawings beyond those described above is allowed. Presented drawings must be mounted on rigid 32"x 40" boards, mounted VERTICALLY (32" length side at the top and bottom of the board). A minimum of (1) board and a maximum of (2) boards are allowed. Drawings may be in ink, pencil or both. Hand-generated or CADD drawings are acceptable. Use of color is NOT permissible. Drawings can only be black, white and shades of grey.

2. MODEL

Build one physical presentation architectural model of your building design at 1/4" = 1'-0" scale.

Models can be made of any materials, including foam core, museum board, card board and found objects. Models can only be black, white and shades of grey. Use of any color is NOT permissible. The direction of North must be noted on the model. The base of the model must be a square or rectangular. The base size must be 20" in one direction and between 20"-40" in the other direction. Longer models may be separated into (2) sections if needed. The entire site does not need to be built in the model.





## **SUBMISSION REQUIREMENTS CONTINUED**

3. DESIGN DESCRIPTION | Provide the following design description:

- Design Solution Title | Give a title to your design that best describes your design solution and strategy.
- Design Narrative | Compose a thoughtful and concise description of your design solution and strategy. This may include your design inspiration and what you are trying to achieve with your design. This is your opportunity to articulate any other ideas that you may have that aren't as easy to read from your drawings and models alone such as building material choices or site ideas relative to the greater master plan. Your narrative should be no more than (10) ten sentences and should be typed or neatly hand printed and mounted on the front side of the presentation drawing board along with the drawings.

### OPTIONAL SUBMISSION ITEMS

4. COMPUTER PERSPECTIVE RENDERINGS | This is an optional submission and is judged separately from the other award categories.

Provide three (3) 3D computer generated perspective renderings of your building design. Two of the renderings must be exterior views and one of the renderings must be an interior view. These are the best views describing your design solution.

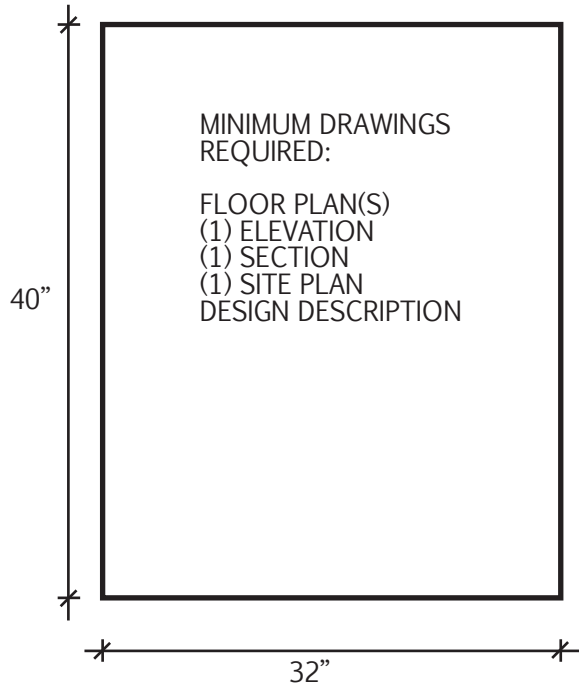
3D computer generated renderings must be produced using Autodesk software (Revit Architecture, AutoCAD or 3ds Max). Submission requirements include one color print of each of the required views (3 total) on 11"x17" size paper and one CD containing the digital files in high resolution JPEG format of your renderings. Label the back of the prints and the CD with entrant's name, school and software used.

### GENERAL GUIDELINES

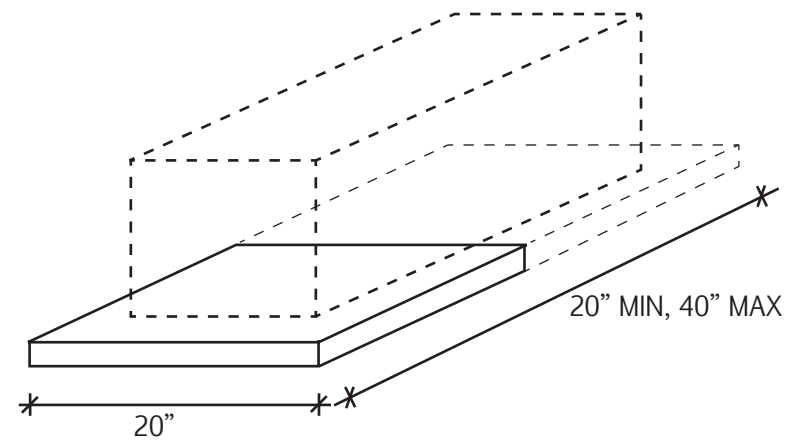
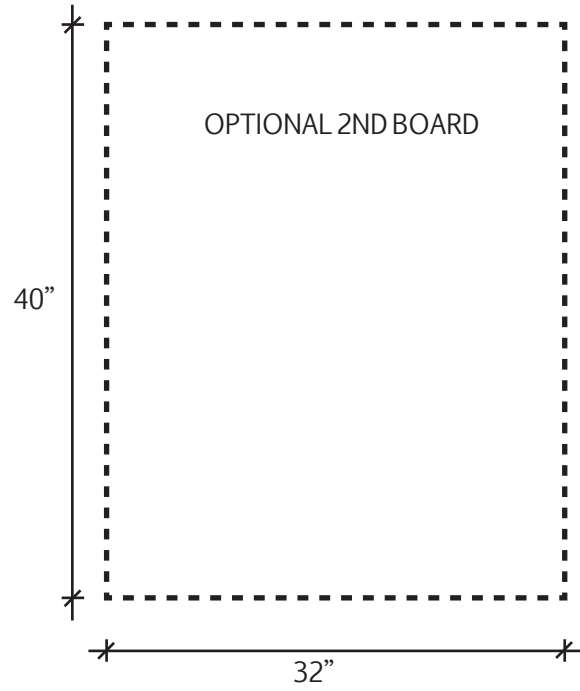
Entrant's name and school must be written on the BACK of the drawings board and the BOTTOM of the model base. No names or identifying marks shall be placed on the front face of any drawing or model. Student must ensure that their entry fits within the presentation requirements. Any deviation from these presentation requirements including smaller or larger sized drawing or model boards, board orientation, or missing requirements may disqualify the entrant from that portion of the competition. Disqualifications of non-conforming entries are at the judges' discretion.



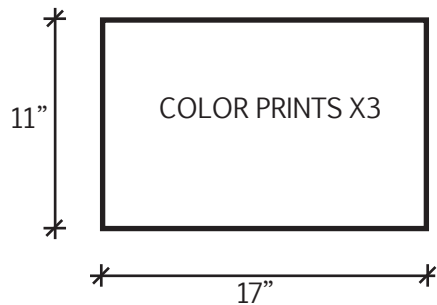
**SUBMISSION REQUIREMENTS CONTINUED**



PRESENTATION DRAWING BOARD



MODEL



CD W/DIGITAL JPG FILES

OPTIONAL 3D COMPUTER GENERATED PERSPECTIVE RENDERINGS



## **AWARDS**

1. BEST DESIGN | Awards for overall superiority in design solution, model, and graphic presentation:
  - 1st Place | \$200.00 & CCA Summer Scholarship\*
  - 2nd Place | \$150.00
  - 3rd Place | \$100.00
2. BEST MODEL | Awards for best model describing design solution:
  - 1st Place | \$100.00
  - 2nd Place | \$75.00
  - 3rd Place | \$50.00
3. BEST DRAWINGS | Awards for best drawings describing design solution:
  - 1st Place | \$100.00
  - 2nd Place | \$75.00
  - 3rd Place | \$50.00
4. BEST AUTODESK 3D RENDERINGS | Optional category, Awards for best 3D computer generated renderings describing design solution:
  - 1st Place | \$100.00
  - 2nd Place | \$75.00
  - 3rd Place | \$50.00
5. HONORABLE MENTIONS | Honorable mention awards will be presented to noteworthy submissions at the discretion of the judges.
6. CERTIFICATE OF PARTICIPATION | Certificate of Participation will be presented to all entrants.

### \*CCA Summer Scholarship

Through the generosity of the California College of the Arts, the Best Design 1st Place prize winner will be offered a full tuition scholarship to CCA's Summer Pre-college Program in Architecture. CCA's Pre-college Program is a four-week intensive studio experience offered in July, Monday through Friday, 9:00am to 4:00pm at the Oakland campus. The student will earn 3 units of college credit. The value of the scholarship is \$2,700.00 per student.

For more information on CCA's summer program, please follow this link: <https://www.cca.edu/academics/precollege>



## **SCHEDULE**

START | JANUARY 27, 2013

Competition is distributed to high schools in the San Francisco Bay Area and posted to the Architectural Foundation of San Francisco's website.

DESIGNING | JANUARY 27 2013 – APRIL 25, 2013

Students work on their designs, drawings and models.

COMPETITION KICK-OFF & AUTODESK REVIT TRAINING | Saturday, February 22, 2014 | 10:00am – 12:30pm

LOCATION | 901 MISSION STREET, SUITE 110, SAN FRANCISCO, CA 94103

The Architectural Foundation of San Francisco will provide a day-long introductory training in Autodesk Revit Architecture 2013 for teachers and students who are interested. Schools are encouraged to send teams of instructors and students to this training. To join the training session, send an email to [will@afsf.org](mailto:will@afsf.org) Use "Revit Training" in the subject line and include your contact information in the body of the email. You will be notified by email of your acceptance. Students may download a free copy of Autodesk Revit Architecture 2013 at <http://students.autodesk.com>

COMPETITION ENTRIES DUE | SATURDAY, APRIL 26, 2013 | 10:00am – 12:00pm (noon)

SUBMITTAL LOCATION TO BE DETERMINED

Bring your submission (presentation drawing board(s), model, and optional 3D perspective print outs & CD) to the submittal location within the 10:00am to 12:00pm window of time. You will be asked to fill out a registration form when submitting your entry. Submittal location will be posted on the AFSF website (2) weeks prior to submittal due date and instructors will be notified. For competition updates, please send an email to Will Fowler, [will@afsf.org](mailto:will@afsf.org). Please note that late submittals will not be accepted! No exceptions!

JUDGING | SUNDAY, APRIL 27, 2013 | 9:00am – 4:00pm

LOCATION IS SAME AS SUBMITTAL LOCATION

Judges Only. A distinguished panel of judges will review every submission in private and determine the award winners.

AWARDS CEREMONY & RECEPTION | APRIL 28, 2013 | 4:00pm – 5:00pm

LOCATION IS SAME AS SUBMITTAL LOCATION

All are invited including entrants, their family and school faculty members. Winners will be announced and awards will be presented at this time. Jurors & the Competition Committee will be available after the awards reception to answer any questions you may have about the competition.

ENTRY PICK-UP | APRIL 28, 2013 | 5:00pm

All entries should be picked up following the awards presentation including the winning entries. Any entries left after the reception will be discarded.





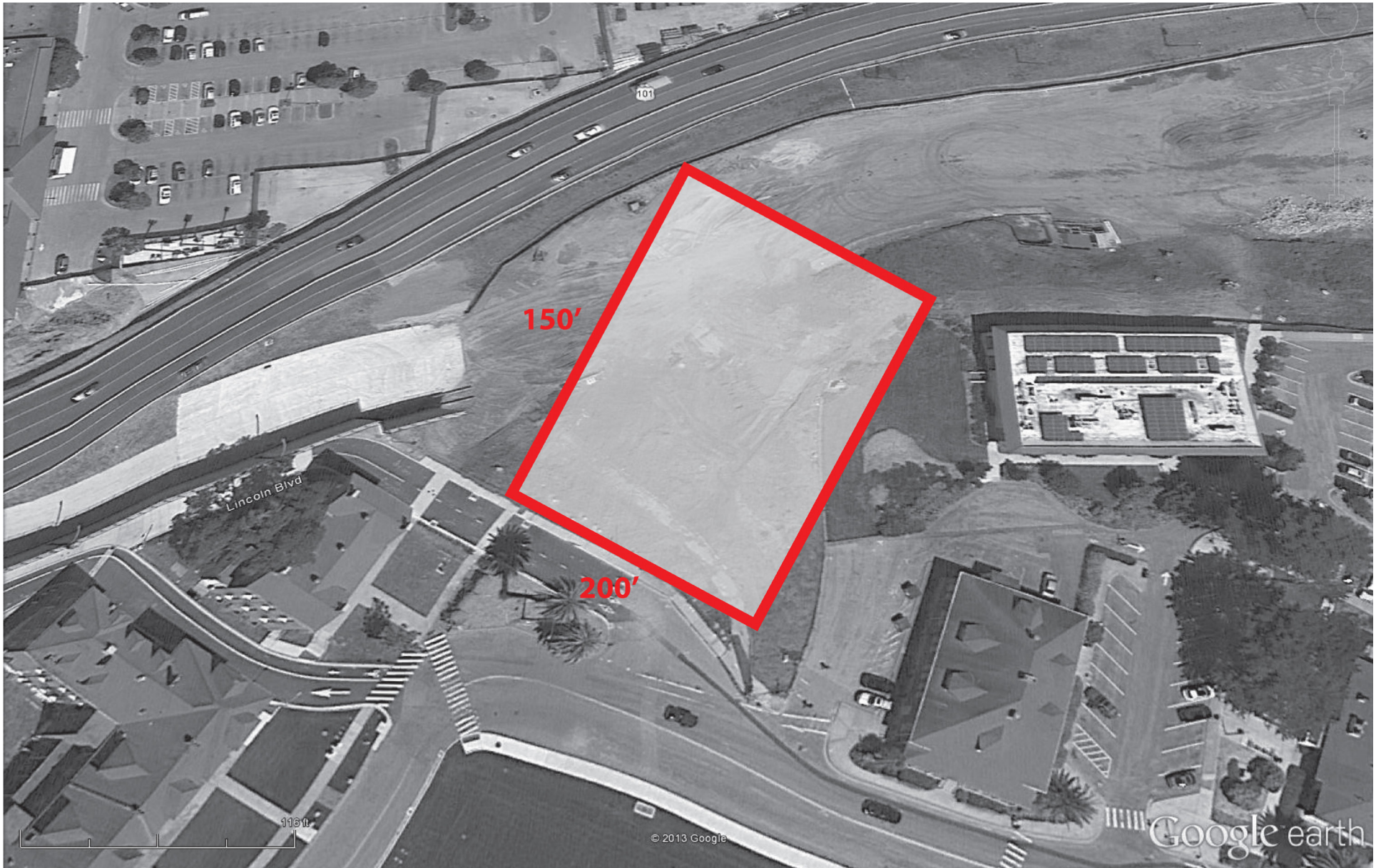
**SITE MAP**







**SITE MAP**





## SITE PHOTOS

View from the eastern edge of the site looking north west



View from the Main Post Lawn looking north towards the site



View from the western edge of the site looking east



View from Lincoln Blvd. looking north towards the site





## **LINKS**

### SITE:

The Presidio Trust <http://www.presidio.gov/Pages/default.aspx>

The Presidio Parkway <http://www.presidioparkway.org/>

National Parks Service <http://www.nps.gov/prsf/index.htm>

### SUSTAINABILITY:

Green Globes - <http://www.greenglobes.com/>

LEED - <http://www.usgbc.org/DisplayPage.aspx?CMSPageID=1970>

Whole Building Design Guide - <http://www.wbdg.org/design/sustainable.php> The Living Principals - <http://www.livingprinciples.org/>

Sustainable Design Forum - <http://www.sustainabledesignforum.com/> <http://inhabitat.com/category/architecture/>